



# AFLOAT COMMITTEE

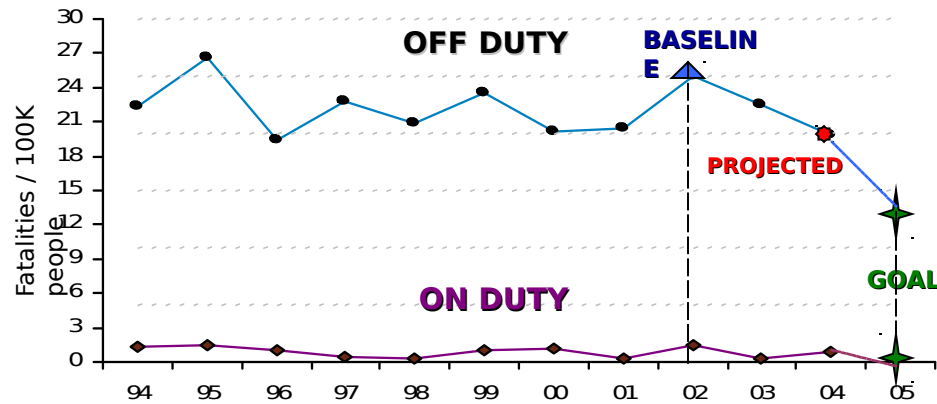


Navy-Marine Corps Safety Council  
17 MAR 2004

# MISHAP RATE



## NAVY FATALITY RATE

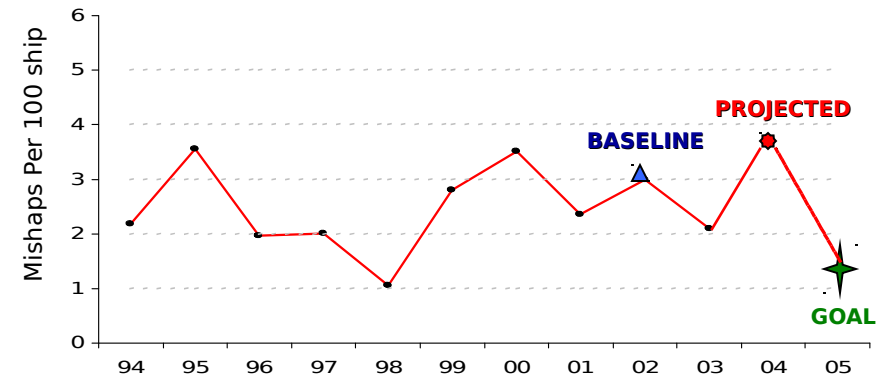


	FY94	FY95	FY96	FY97	FY98	FY99
<b>RATE</b>	22.40/1.31	26.69/1.42	19.44/0.98	22.75/0.50	20.93/0.26	23.59/1.08
	FY00	FY01	FY02	FY03	FY04	FY05
<b>RATE</b>	20.10/1.11	20.38/0.3	24.9*/1.49	22.50/0.1	19.79/0.1	12.5**/0.09

## COST OF FATALITIES

COSTS: (\$M)	Off-Duty (O/E)	On-Duty (O/E)
<b>FY02 BASELINE :</b>	\$5.60 M (1/36)	\$0.75 M (0/6)
<b>FY03 :</b>	\$4.77 M (1/35)	\$0.13 M (0/1)
<b>FY04 (TO DATE):</b>	\$1.92 M (2/9)	\$0.25 M (0/2)

## AFLOAT CLASS "A" MISHAP RATE



	FY94	FY95	FY96	FY97	FY98	FY99
<b>RATE</b>	2.18	3.55	1.97	2.01	1.05	2.81
	FY00	FY01	FY02	FY03	FY04	FY05
<b>RATE</b>	3.51	2.36	2.99*	2.10	3.63	1.49

## COST OF CLASS "A" MISHAPS

COSTS: (\$M)	Property
<b>FY02 BASELINE :</b>	\$29.96 M
<b>FY03 :</b>	\$6.46 M
<b>FY04 (TO DATE):</b>	\$6.80 M



# PRIVATE MOTOR VEHICLES



## DISCUSSION

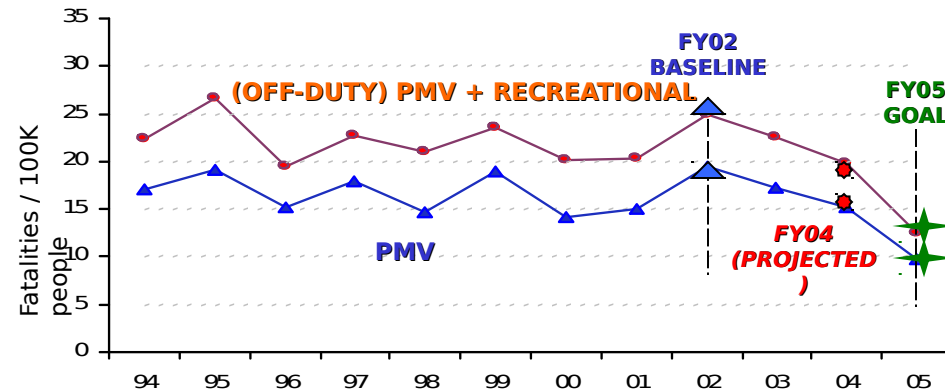
### Age of Afloat PMV Accident Victims (FY 99-03)

- 73% - ages (18 - 24)
- 27% - ages (25 - 31+)
- Afloat Off Duty Fatalities (FY02/03)
  - (18 - 24) 4 wheel - 41, 2 wheel - 7
  - (25 - 31+) 4 wheel - 7, 2 wheel - 9
- Recreational (FY02/03)
  - (18 - 24) - 7 (25 - 31+) - 3
- Motorcycle / Vehicle Safety currently funded at CL-3

#### FATAL FACTORS

- **Seat Belts - 45%**
- **Alcohol - 38%**
- **Speeding - 22%**
- **Fatigue - 12%**
- **Night - 67%**
- **Weekend - 62%**

## NAVY OFF-DUTY FATALITY RATE



	FY94	FY95	FY96	FY97	FY98	FY99
<b>RATE</b>	17.07	19.1	15.12	17.95	14.65	19.03
	FY00	FY01	FY02	FY03	FY04	FY05
<b>RATE</b>	14.2	15.09	19.48	17.27	15.17	9.76

## RECOMMEND

- Education
  - Fund Traffic Safety at Capability Level 1
- Accountability
  - Link enforcement of Traffic Safety Programs to Afloat Command Excellence Program
- ORM
  - Ensure attendance of Prevent for all Zone A Sailors
  - Highway Patrol Refresher Training to mitigate risks for all returning units
  - Unit Chain of Command focus on Fatal Factors

## COSTS / FUNDING REQUIREMENTS

### CNI COST (M's) FOR CAPABILITY LEVEL 1 PROGRAMS (ALL REGIONS) (BOS)

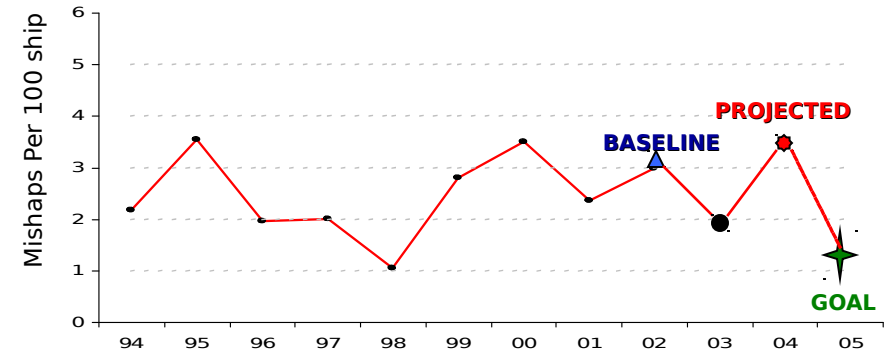
	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11
Requirement	2.40	5.45	5.82	6.01	6.21	6.40	6.62	6.35
Funding	0	0	0	0	0	0	0	0
Short Falls	2.40	5.45	5.82	6.01	6.21	6.40	6.62	6.35



### DISCUSSION

### AFLOAT CLASS "A" MISHAP RATE

- Survey's from Dept Heads to Junior Sailors
- Online Program provides metrics at CO level to evaluate onboard Safety Culture
  - Allows the crew to grade themselves (66 questions)
- Fosters Ownership



	FY94	FY95	FY96	FY97	FY98	FY99
RATE	2.18	3.55	1.97	2.01	1.05	2.81
	FY00	FY01	FY02	FY03	FY04	FY05
RATE	3.51	2.36	2.99* * Baseline Rate for FY02	2.10	3.63	1.49 ** GOAL Rate for FY05

### RECOMMEND

### COSTS / FUNDING REQUIREMENTS

- Complete all Afloat commands within FRP
  - Coordinate with NAVSAFECEN to issue directive
- Incorporate in initial phase of FRP cycle - link to Basic Phase Training / Training Arrival Conference
- Provide access and visibility to ISIC/TYCOM
- Expand/ Develop for ACU (LCAC/LCU) community

#### COST TO CONDUCT AFLOAT SAFETY CLIMATE ASSESSMENT SURVEY

	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11
Requirement	35K	15K	15.2K	15.4K	15.6K	15.8K	16.1K	16.3K
Funding	FULLY FUNDED							
Short Falls	0	0	0	0	0	0	0	0



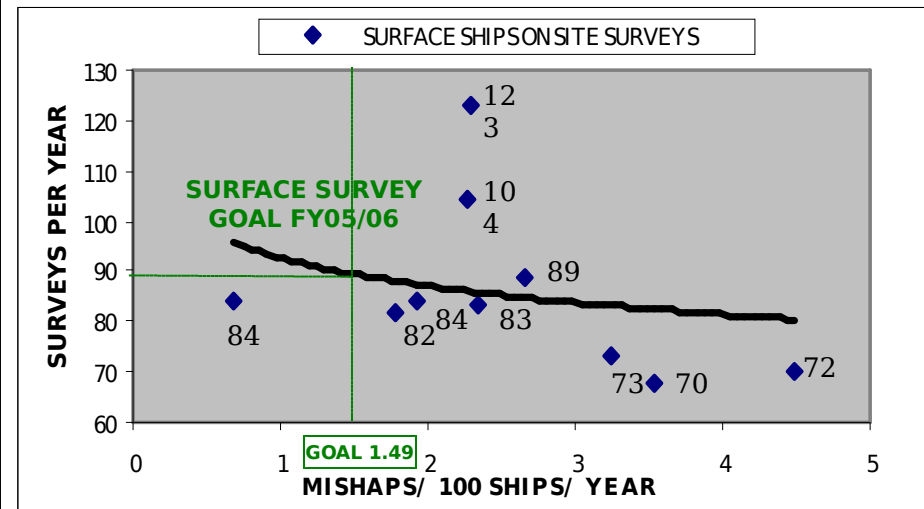
# ON SITE SURVEYS



## DISCUSSION

- Subs (FY02/03)
  - 1 Class "A" - Attributed to Subs with Survey
  - 4 class "A" - Attributed to Subs without Surveys
- Surface (FY02/03)
  - 1 Class "A" - Attributed to Ships with Survey
  - 16 Class "A" - Attributed to Ships without Surveys
- ACU (FY02/03) - (Material surveys only)
  - 3 Class "A" Mishap in (FY02/03)
- NSC Current Manning adequate, Travel Funding inadequate

## SURFACE SHIPS ON-SITE SURVEYS



## RECOMMEND

- Modify OPNAVINST 5100.19D to link periodicity to FRP cycle - with maximum interval not to exceed 3 years
- Incorporate ACU (LCAC/LCU) Craft
- Make Surveys available to Chain of Command
- Fully Fund Annual Requirement

## COSTS / FUNDING REQUIREMENTS

NSC COST TO CONDUCT SAFETY SURVEYS LINKED WITH FRP CYCLE FOR SHIPS, SUBS, ACU'S

	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11
Requirement	306K	338K	343K	348K	353K	358K	363K	368K
Funding	148K	216K	216K	216K	216K	216K	216K	216K
Short Falls	158K	126K	127K	132K	137K	142K	147K	152K





## DISCUSSION

### Primary Cause Surface/Sub (FY99/03)

- 48 of 50 Class "A" Mishaps -> human error
- ACU (FY02/03) - High Class "A" Mishap rates where ORM is not institutionalized.
- Surface Training - Immersion Training 100% complete
- SUBFOR and ACU Immersion training in progress
- NSC delivers ORM Training concurrently with Surveys
- Fleet delivers Integrated ORM through ATG & TRE teams
- NETC delivers ORM Training in Officer & Enlisted pipelines

## RECOMMEND

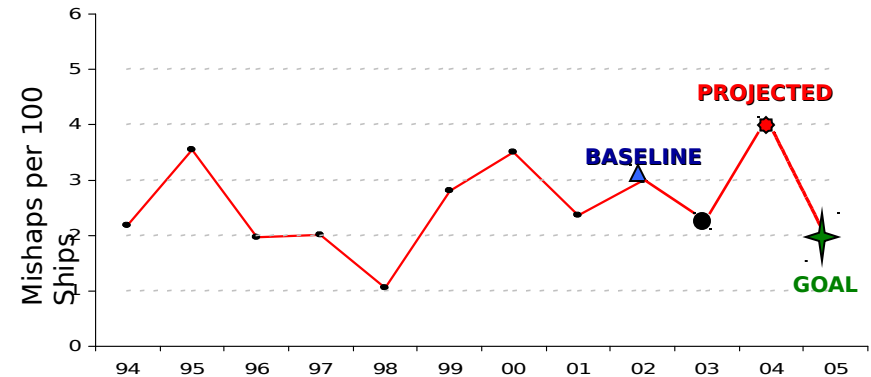
### FLEET COMMANDS

- Incorporate Aggressive Mishap Reduction Safety Training into Unit Safety Award Programs.

### NSC

- Incorporate into NSC Web-Enabled Safety Systems
- Continue with Naval Safety Center ORM Training (Focus on ACU Units)

## AFLOAT CLASS "A" MISHAPS



	FY94	FY95	FY96	FY97	FY98	FY99
RATE	2.18	3.55	1.97	2.01	1.05	2.81
	FY00	FY01	FY02	FY03	FY04	FY05
RATE	3.51	2.36	2.99*	2.10	3.63	1.49**

\* Baseline Rate for FY02  
\*\* GOAL Rate for FY05

## COSTS / FUNDING REQUIREMENTS

### NSC COST TO CONDUCT ORM TRAINING (OM&N)

	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11
Requirement	103K	128K	145K	153K	161K	170K	179K	182K
Funding	0	0	0	0	0	0	0	0
Short Falls	103K	128K	145K	153K	161K	170K	179K	182K



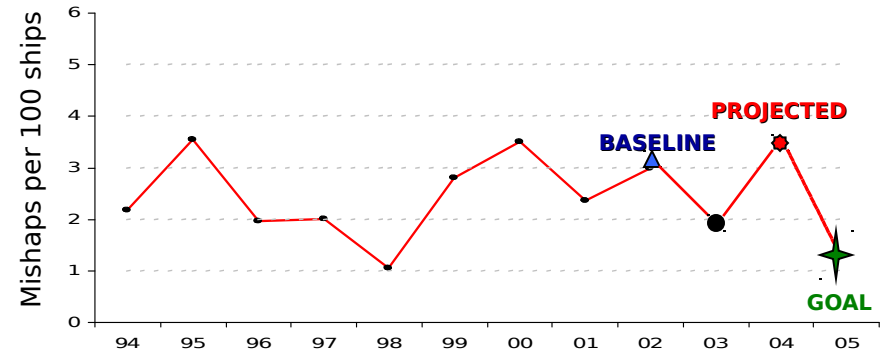
# CULTURAL WORKSHOP



## DISCUSSION

## AFLOAT CLASS "A" MISHAP RATE

- Conducted solely for the benefit of the command
- Survey's from Dept Heads to Junior Sailors
- ASCAS completion required as part of workshop process
- Led by a trained facilitator and lasts two hours



	FY94	FY95	FY96	FY97	FY98	FY99
RATE	2.18	3.55	1.97	2.01	1.05	2.81
	FY00	FY01	FY02	FY03	FY04	FY05
RATE	3.51	2.36	2.99* * Baseline Rate for FY02	2.10	3.63 ** GOAL Rate for FY05	1.49***

## RECOMMEND

## COSTS / FUNDING REQUIREMENTS

- Develop Workshop outline and facilitator pool
- Beta test on afloat units ( 1 surface/ 1 submarine)
- Identify Fleet Requirements

### NSC COST TO CONDUCT CULTURAL WORKSHOPS (OM&N)

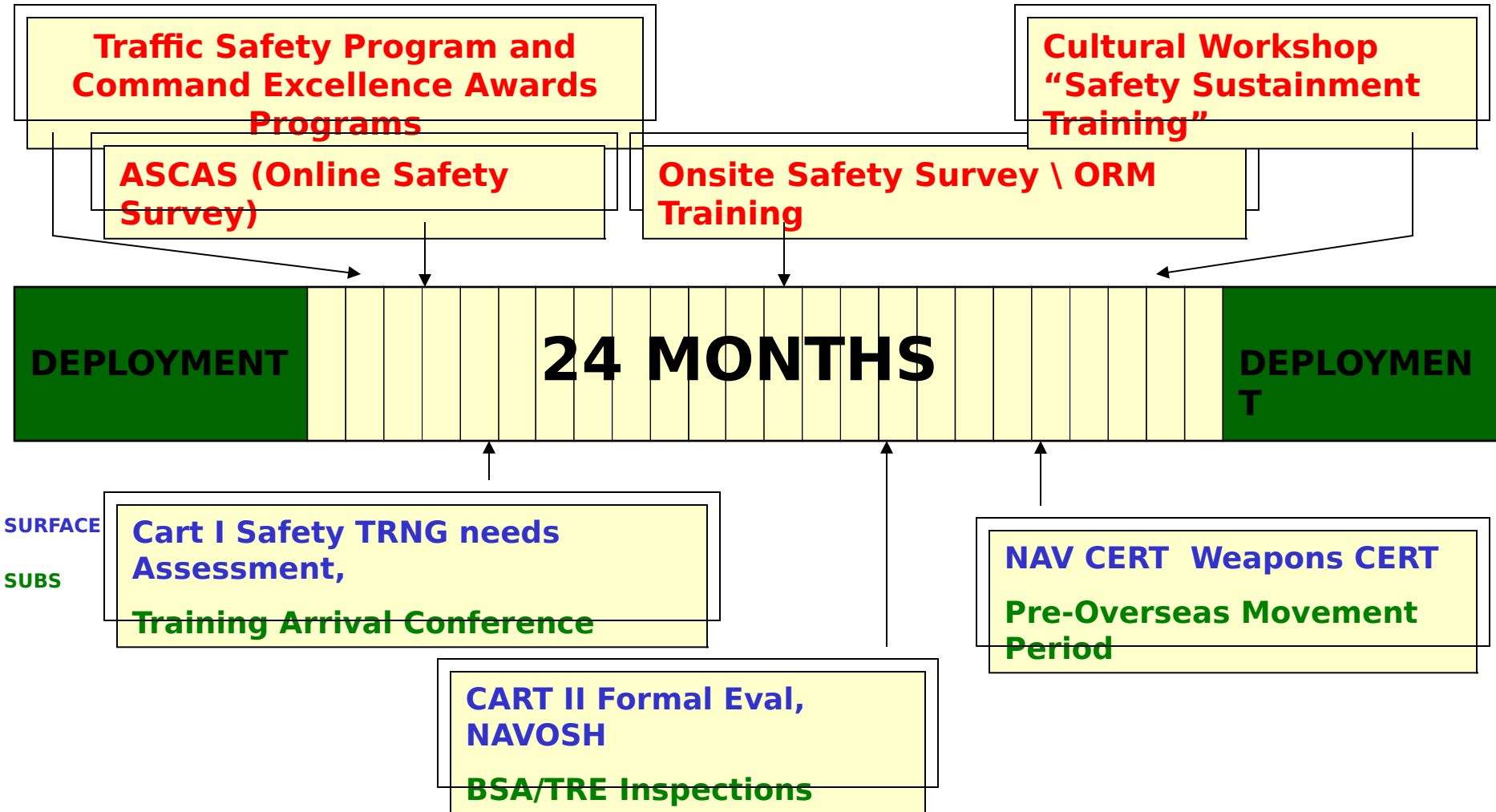
	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11
Requirement	0	150K	156K	162K	169K	175K	175K	183K
Funding	0	0	0	0	0	0	0	0
Short Falls	0	150K	156K	162K	169K	175K	175K	183K





$$C_R = C_M + C_M + C_T + C_S$$

**CONTINUOUS READINESS = MAINTENANCE + MATERIAL + TRAINING + SAFETY**



**Steady strain throughout FRP Cycle = REDUCED MISHAPS**



**Navy-Marine Corps Safety**



# RETURN ON INVESTMENT



## INVESTMENT

ROI = REDUCTION ACHIEVED FY05 Cost Reduction Goal of Class "A" : \$14.98

**ADDITIONAL INVESTMENT**  
\$3.18

FY05 Cost Reduction Goal of Fatalities :

(Assuming 50% Reduction)

Reduction Goal

\$18.16

100 % of Goal

$$\frac{18.16 \text{ $/Yr}}{5.85 \text{ $/Yr}} = 310\% \text{ ROI/Yr}$$

50 % of Goal

$$\frac{9.08 \text{ $/Yr}}{5.85 \text{ $/Yr}} = 155\% \text{ ROI/Yr}$$

25 % of Goal

$$\frac{4.54 \text{ $/Yr}}{5.85 \text{ $/Yr}} = 77.6\% \text{ ROI/Yr}$$

5.85 \$/Yr

## ADDITIONAL INVESTMENT

INVESTMENTS (\$MILLIONS)	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	TOTAL
Private Motor Vehicle (CNI)	2.40 M	5.45 M	5.82 M	6.01 M	6.21 M	6.40 M	6.62 M	6.35 M	47.67M
On-Site Safety Surveys (NSC)	158K	126K	127K	132K	137K	142K	147K	152K	1.12M
ORM (NSC)	103K	128K	145K	153K	161K	170K	179K	182K	1.22M
Cultural Workshops (NSC)	0K	150K	156K	162K	169K	175K	175K	183K	1.17M
<b>ADDITIONAL INVESTMENT</b>	5.07 M	5.85 M	6.25 M	6.46 M	6.68 M	6.87 M	7.12 M	6.87 M	51.18M

